



GENERAL INSTRUCTIONS TO THE CANDIDATES

1. Candidates are instructed to answer the questions as per Bloom's Taxonomy knowledge level (K₁ to K₆)
2. Candidates are strictly instructed not to write anything in the question paper other than their roll number.
3. Candidates should search their pockets, desks and benches and handover to the Hall Superintendent/ Invigilator if any paper, book or note which they may find therein as soon as they enter the examination hall.
4. Candidates are not permitted to bring electronic watches with memory, laptop computers, personal systems, walkie-talkie sets, paging devices, mobile phones, cameras, recording systems or any other gadget / device /object that would be of unfair assistance to him / her.
5. Corrective measures as per KCT examination policies will be imposed for malpractice in the hall like copying from any papers, books or notes and attempting to elicit the answer from neighbours.

B.E/B.TECH DEGREE EXAMINATIONS: JUNE 2015

(Regulation 2014)

Second Semester

U14EET211: BASICS OF ELECTRICAL AND ELECTRONICS ENGINEERING

(Common to AUTO/ME & BIO)

Time: Three Hours

Maximum Marks: 100

Answer all the Questions:-

PART A (10 x 1 = 10 Marks)

1. Match the following

[K₁]

List I	List II
A. Charge	i. Watt
B. Energy	ii. Watt-Sec
C. Power	iii. Farad
D. Capacitance	iv. Coulomb

	A	B	C	D
a)	i	ii	iii	iv
b)	iii	iv	ii	i
c)	iv	ii	i	iii
d)	ii	iii	iv	i

2. Resistivity depends on [K₂]
- a) Voltage b) Current
c) Material d) Dimension
3. Flux density B is equal to [K₁]
- a) Flux/ length b) Flux/ Area
c) Flux/ volume d) Flux/ current
4. To induce EMF, the requirements are [K₂]
- a) Conductor and Current b) Conductor and voltage
c) Conductor and static field d) Conductor and changing field
5. Alternating current is changing in [A. Magnitude B. Direction C. Amplitude D. Waveform] [K₂]
- a) A and B b) A and C
c) B and C d) B and D
6. Power factor depends on [A. Supply voltage B. Load Impedance C. Active Power D. Time] [K₃]
- a) A and B b) A and C
c) B and C d) B and D
7. Assertion (A): Series motor has high starting torque [K₃]
Reason (R): Series field carries load current
- a) A and R are true and related b) A and R are true and not related
c) A is true and R is not true d) A is not true and R is true
8. Assertion (A): Transformer is rated in kVA [K₂]
Reason (R): Frequency is increased in transformer
- a) A and R are true and related b) A and R are true and not related
c) A is true and R is not true d) A is not true and R is true
9. Find the correct sequence of voltages of full wave rectifier in ascending order of their values [K₂]
[A. V_m B. V_{dc} C. PIV]
- a) A, B, C b) C, A, B
c) B, C, A d) B, A, C

